

**VOGEL PAINT & WAX
COMPANY**

IOWA

EPA ID# IAD980630487

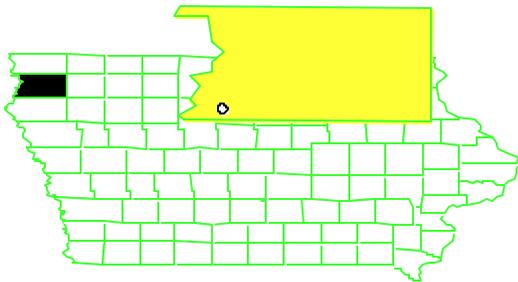
EPA Region 7

City: Orange City

County: Sioux County

Other Names: Vogel Disposal Site

09/04/2002



SITE DESCRIPTION

From 1971 to 1979, the Vogel Paint and Wax Company disposed of paint, sludge, resins, solvents and other solid wastes at a 2-acre disposal site in rural Sioux County, Iowa. Liquid wastes were dumped into several trenches from 8 to 12 feet deep. The trenches were left open for extended periods to allow for evaporation. Partially filled and full drums and other debris were dumped on top of the liquid wastes. The trenches eventually were covered with 1 to 2 feet of soil. The disposal area is part of an 80-acre parcel located approximately 2 miles southwest of the City of Maurice, population 288, three miles north of the City of Struble, population 59, and 2 miles northwest of a rural water system well field. The rural water system serves approximately 3,000 people. Two shallow private wells lie several hundred feet west of the disposal site. Beginning in 1979, the company conducted numerous investigations in conjunction with the Iowa Department of Natural Resources (IDNR) to determine the extent of contamination. A shallow groundwater contamination plume was found to extend approximately 1,000 feet south and east of the disposal area.

Site Responsibility:

This site is being addressed by the potentially responsible party with oversight by the Iowa Department of Natural Resources.

NPL LISTING HISTORY

Proposed Date: 10/15/1984

Final Date: 06/10/1986

Deleted Date:

THREATS AND CONTAMINANTS

Groundwater is contaminated with the volatile organic compounds (VOCs) benzene, ethylbenzene, methyl ethyl ketone, toluene, and xylenes. Soils in the disposal area and surface water contain elevated levels of heavy metals, particularly chromium and lead. Additionally, soils contain VOC contaminants. No current or past significant exposure to site contaminants exists. Potential for future exposure to contaminated groundwater is the principal threat associated with the site.

CLEANUP APPROACH

Response Action Status

Initial Action: A 2-foot thick clay cap was placed over the disposal area shortly after the site was identified as a problem. In addition, floating VOCs were removed from the groundwater table on a regular basis.

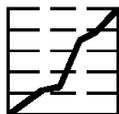
Source Control: The soil remediation was initiated in 1991 and completed in 1999. Remedial activities were conducted primarily from April through October of each year. These source control operations involved excavating the previously disposed wastes and surrounding contaminated soils. Solid and liquid wastes were then sorted from the excavated soils for off-site incineration, recycling, or disposal. Contaminated soils were being treated on site by bioremediation and volatilization. After treatment, the soils were placed back into the excavated area and covered. An estimated total of 55,000 to 60,000 cubic yards of contaminated soils were excavated and treated, including approximately 2,500 cubic yards of lead-contaminated soils that required stabilization/solidification through the addition of agricultural lime. The September 2000 Remedial Action Report summarizes the remedial activities that were undertaken to address contaminated soils.

Groundwater: The groundwater remediation consists of groundwater extraction, air stripping, and product recovery. The groundwater remedial facilities were put into operation in April 1991. VOCs from the groundwater treatment process are released to the atmosphere. Modeling of contaminants in air from the soil treatment was performed prior to implementing long-term cleanup actions. This modeling indicated that air contamination would not pose a significant threat and has since been verified by air monitoring. Health-based standards have been established for treated groundwater prior to discharge. Treated groundwater is discharged to a nearby stream or is infiltrated back into the ground

to enhance removal of floating VOCs. A total of 15,000 gallons of the estimated 50,000 gallons of free product (primarily xylenes) have been recovered. Groundwater remediation is expected to continue until at least 2004.

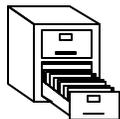
Site Facts: The Iowa Department of Natural Resources (IDNR) is the lead agency for the oversight of this responsible party remedial action. A 1987 Administrative Order on Consent was entered into by IDNR and Vogel Paint & Wax Company for conduct of the Remedial Investigation/Feasibility Study. The IDNR and EPA signed a Record of Decision (ROD) in September 1989. A 1990 Administrative Order on Consent was entered into by IDNR and Vogel Paint & Wax Company for conduct of the remedial actions as prescribed in the ROD. An Explanation of Significant Differences (ESD) for the soil and groundwater cleanup actions was issued July 20, 1994. A second ESD was issued in October 2000 for the groundwater component to describe additional actions to enhance free product recovery and criteria for evaluating future groundwater actions. The site is listed on the State Registry of Hazardous Waste or Hazardous Substance Disposal Sites which prohibits substantial changes or transfer of property without written approval of the Director of the IDNR.

ENVIRONMENTAL PROGRESS



The soil remediation has been completed and is summarized in the September 2000 Remedial Action Report. The Vogel Paint & Wax Company site no longer poses an immediate threat to the public or the environment while the groundwater remediation continues. The September 1998 Five-Year Review that was conducted by IDNR on behalf of the USEPA concluded that the remedies selected for this site remain protective of human health and the environment. A second Five-Year Review will be conducted in 2003.

SITE REPOSITORY



Orange City Public Library
112 Albany Avenue, S.E.
Orange City, IA 51041

Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-4038

Iowa Department of Natural Resources
Records Center, 5th Floor
Wallace State Office Building
900 East Grand
Des Moines, IA 50319

REGIONAL CONTACTS

SITE MANAGER:

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COMMUNITY INVOLVEMENT COORDINATOR:

Beckie Himes

PHONE NUMBER:

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STATE CONTACT:

Robert Drustrup

Iowa Dept. of Natural Resources

PHONE NUMBER:

(515) 281-8900

MISCELLANEOUS INFORMATION

STATE:

IA

071M

CONGRESSIONAL DISTRICT:

05

EPA ORGANIZATION:

SFD-IANE/SUPR

MODIFICATIONS